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THE UNITED STATES OF AMERICA

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November 19, 2003

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/411,901

FILING DATE: September 20, 2002

RELATED PCT APPLICATION NUMBER: PCT/US03/29648



By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

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U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE
PTO/SB/17 (10-01)

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$) 80

Complete If Known

Application Number To Be Assigned
Filing Date July 23, 2002
First Named Inventor Ron Halliburton
Examiner Name
Group / Art Unit
Attorney Docket No 36871-181827

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to

Deposit Account Number

22-1261

Deposit Account Name

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- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☒ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed.

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	208	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	80

SUBTOTAL (1)

(\$ 80)

2. EXTRA CLAIM FEES

Total Claims		** =	Extra Claims	X	Fee from below	=	Fee Paid
Independent Claims		** =	0	X		=	0
Multiple Dependent				X		=	0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
116	110	216	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	
126	160	126	160	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 0)

SUBMITTED BY

Name (Print/Type) Andrew C. Aiken Registration No. Attorney/Agent 36,729 Telephone 202-862-4800
Signature [Signature] Date 9/18/02

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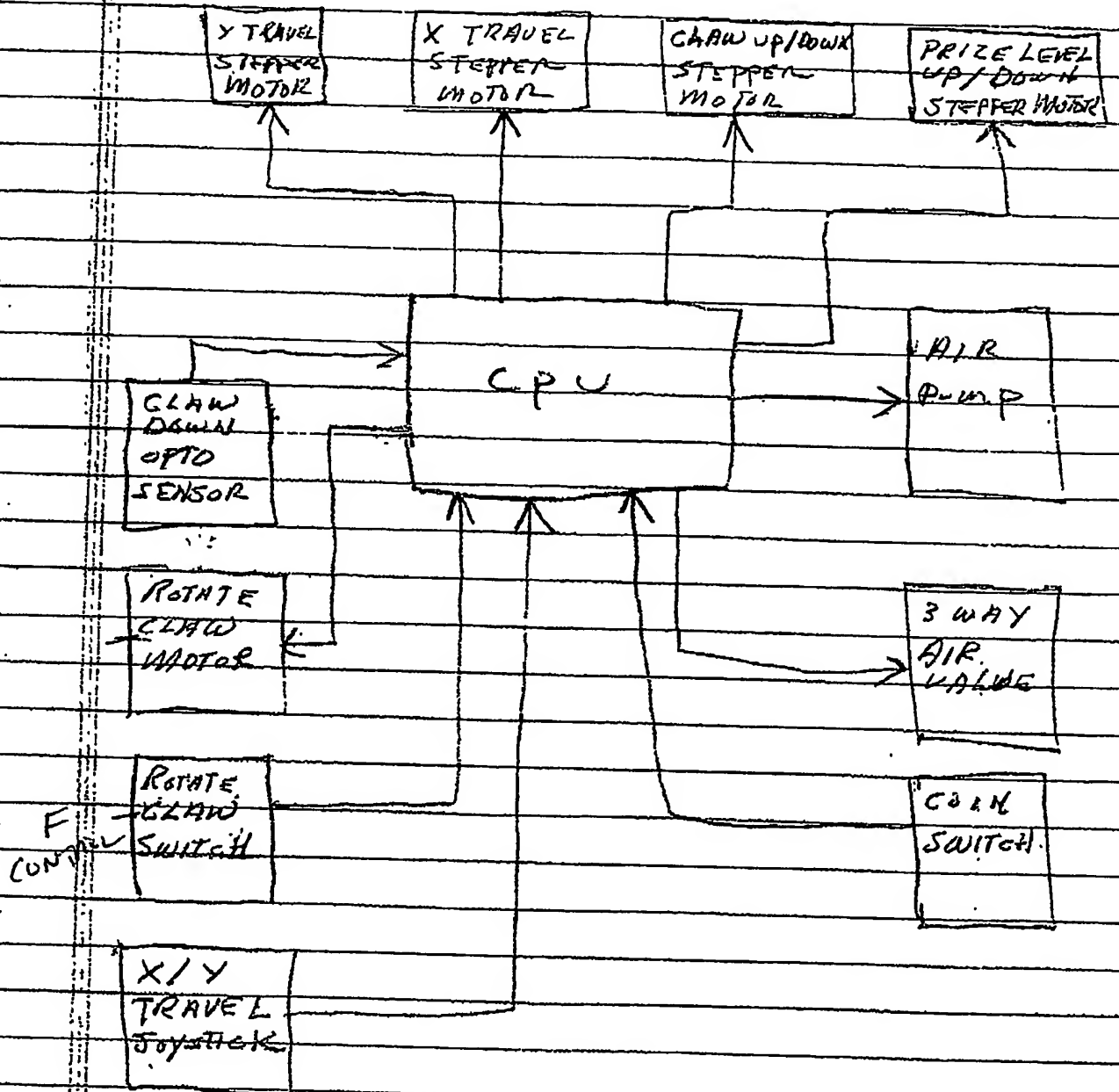
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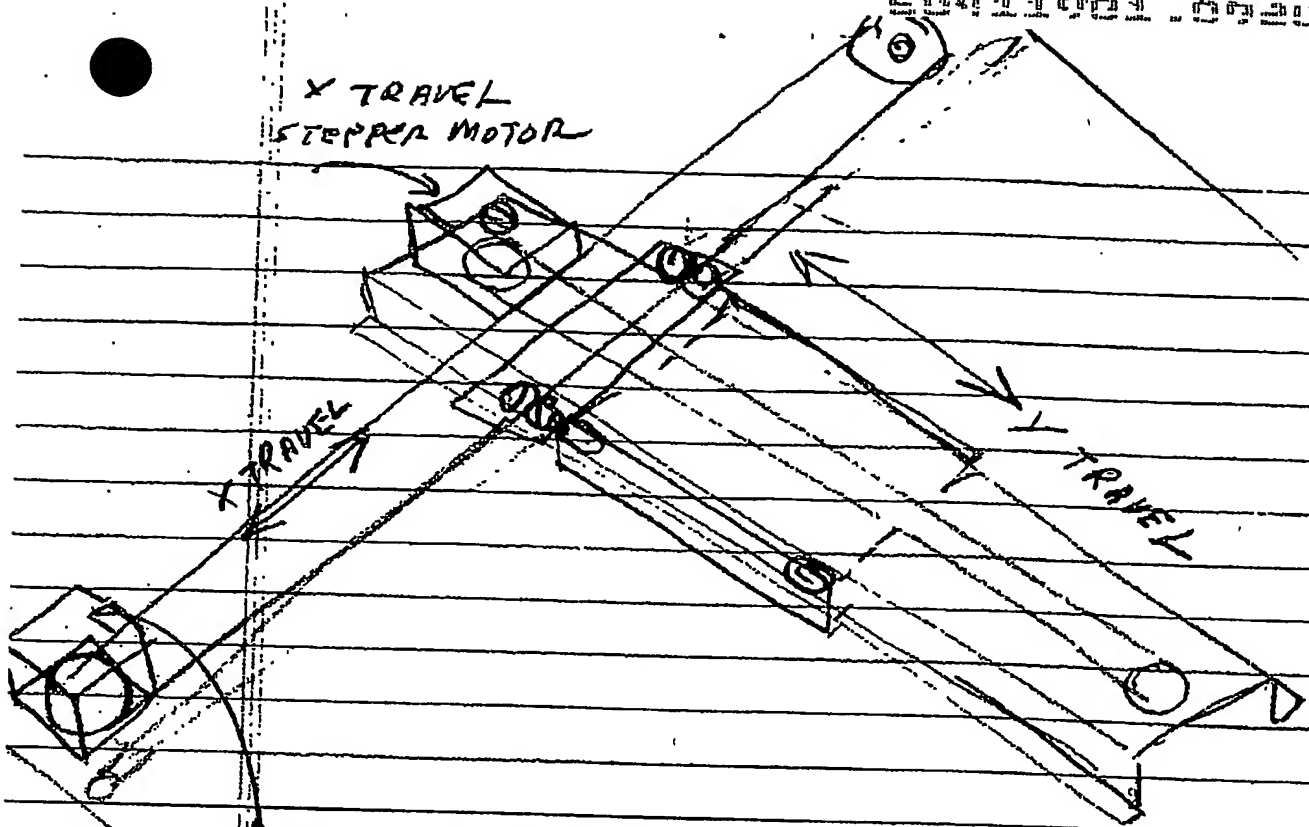
STANDARD CRANE VERSUS NEW FEATURES

- (1) AIR CYLINDER REPLACES HIGH CURRENT SOLENOID THAT DON'T HAVE LINEAR POWER CURVE.
- (2) AIR CYLINDER WILL NOT HEAT UP LIKE A SOLENOID DOSE THAT CHANGES THE POWER CURVE DEPENDING ON TEMP.
- (3) CLAW UP/DOWN STEPPER MOTOR CAN DETECT LEVEL OF PRIZES TO INSTRUCT WHEN TO RAISE LEVEL OF PRIZES TO KEEP GAME AT A FULL LEVEL TO INVITE MORE PLAY.
- (4) WITH AIR DRIVEN CLAW THERE IS NO SOLENOID POWER WIRE CONNECTED TO SIDE OF CLAW BY HAVING A SINGLE AIR LINE CONNECTED TO CENTER OF CLAW ASSY. WE ROTATE CLAW UP TO 60 DEGREES GIVING PLAYER MORE INTERACTION.
- (5) UNTIL NOW A CRANES HAS X/Y Z/TRAVEL WE NOW HAVE X/Y/Z AND ROTATE.
- (6) A AIR CYLINDER HAS EVEN FODQUE THOUGHT OUT FULL TRAVEL.

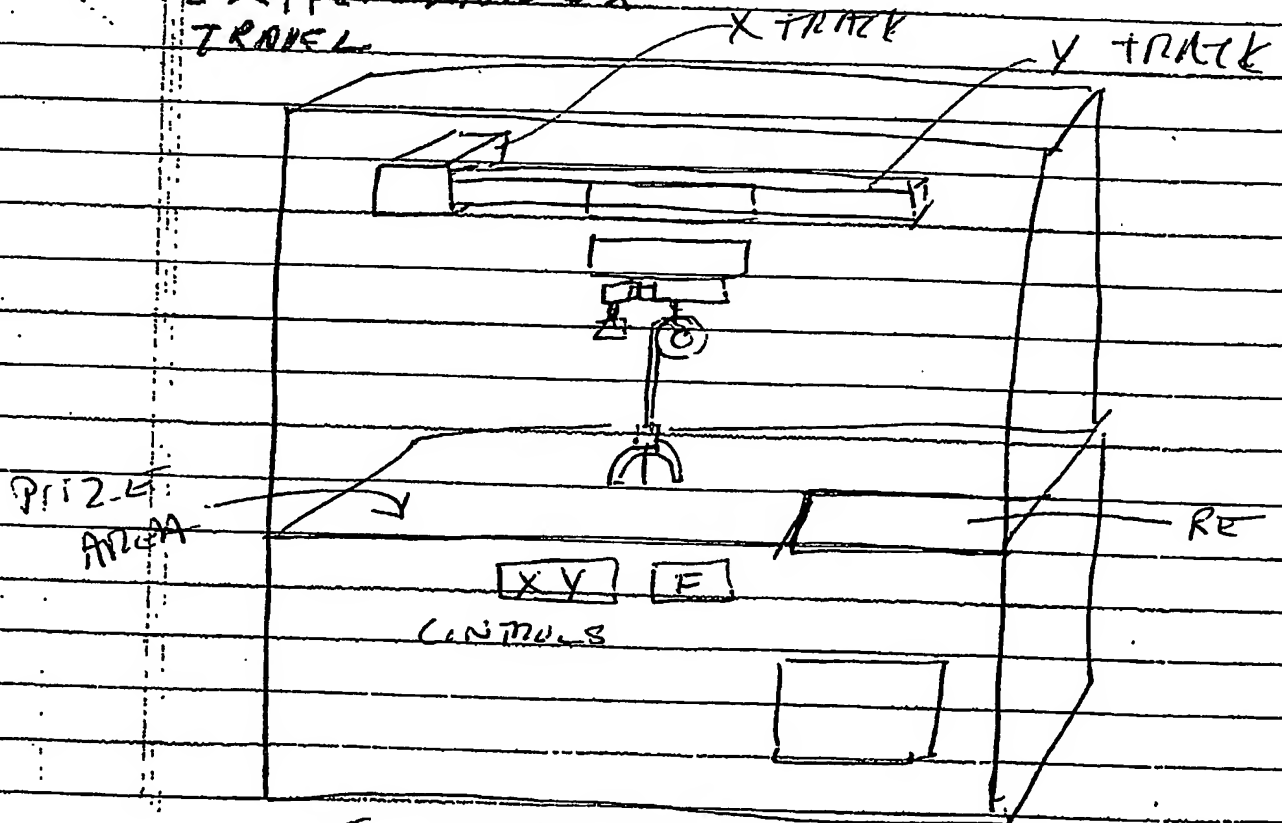
STEPPER MOTORS VERSUS DC MOTORS

- (1.) WITH DC MOTORS Doing $X/Y/Z$ TRAVEL THEY NEED A END OF TRAVEL SWITCH AT EACH END. 6 SWITCHES IN TOTAL WITH STEPPER MOTORS NO SWITCHES ARE NEEDED.
- (2.) IF THERE IS A MECHANICAL PROBLEM THAT LIMITS TRAVEL A DC MOTOR WOULD BURN OUT IN A STALL POSITION. IF A STEPPER MOTOR IS STALLED IT WILL JUST SLIP.



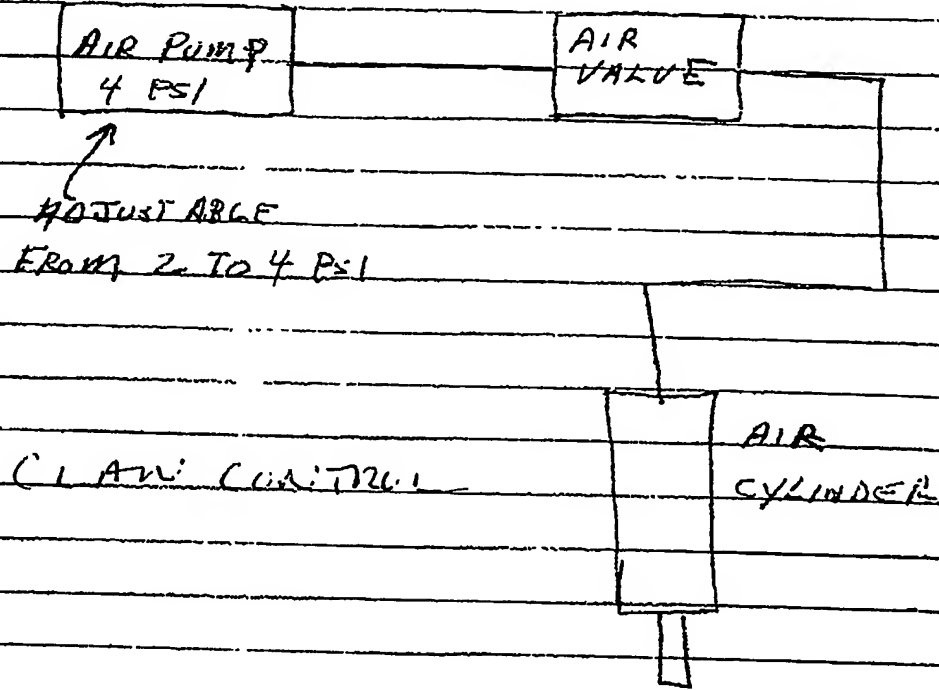


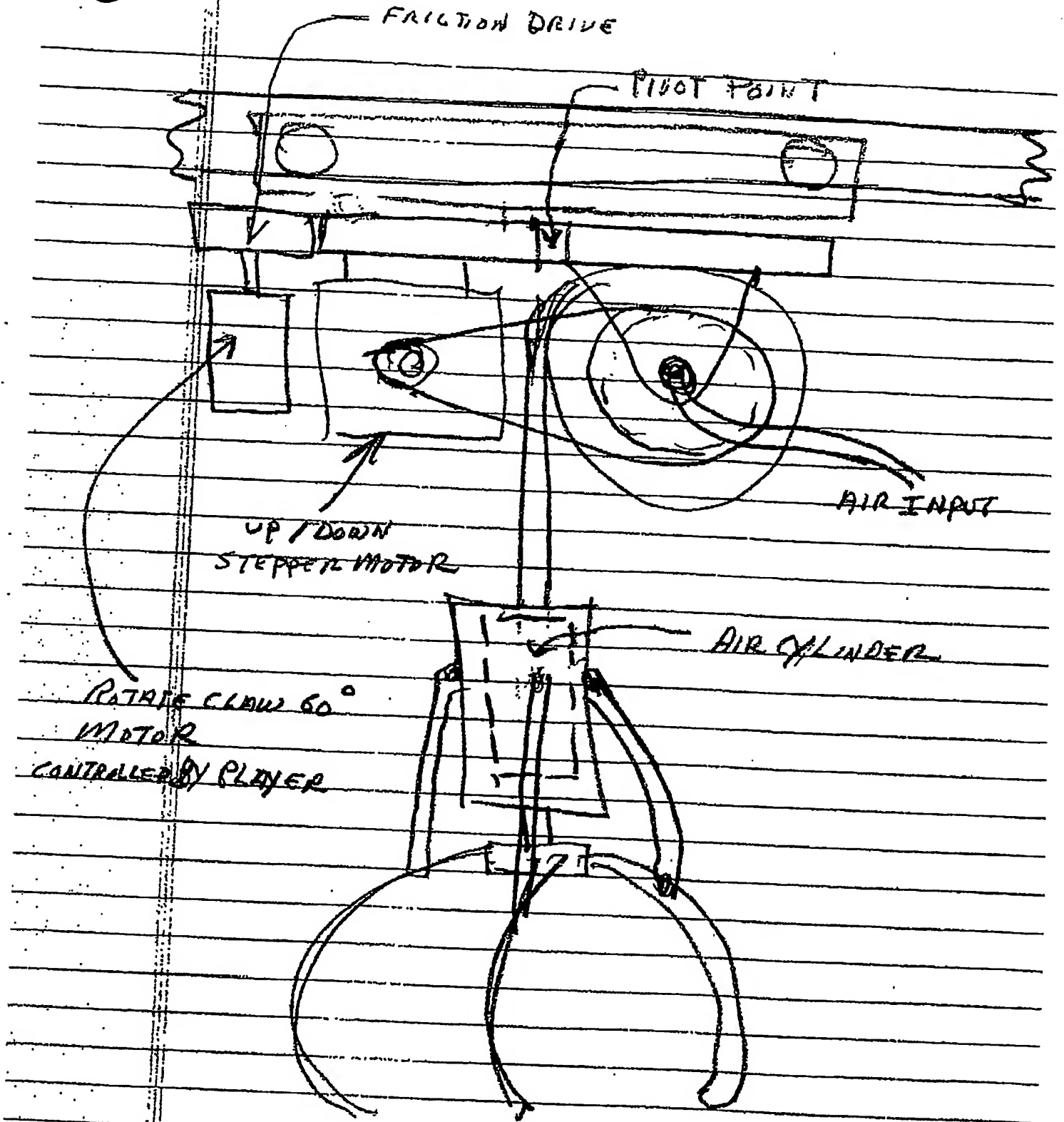
STEPPER MOTOR X TRAVEL



F CONTROL ALLOWS CRANE CLUTCH TO ROTATE. - ()

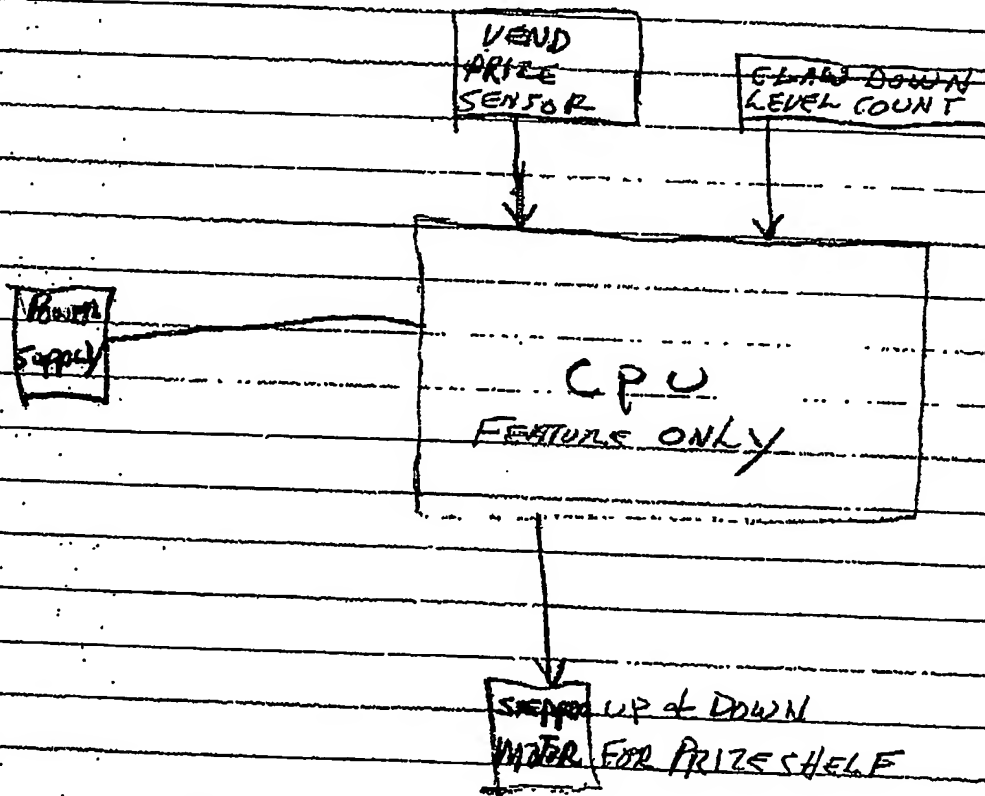
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CRANE FEATURE
TO KEEP PRIZE LEVEL FULL AND
RELOADS 50% LESS.

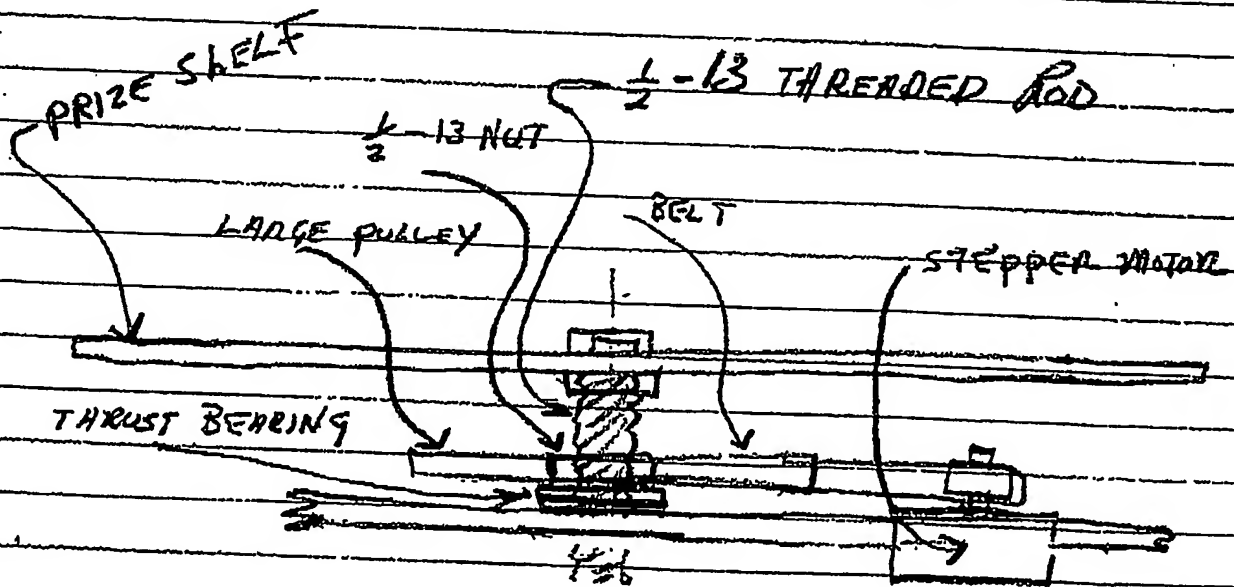
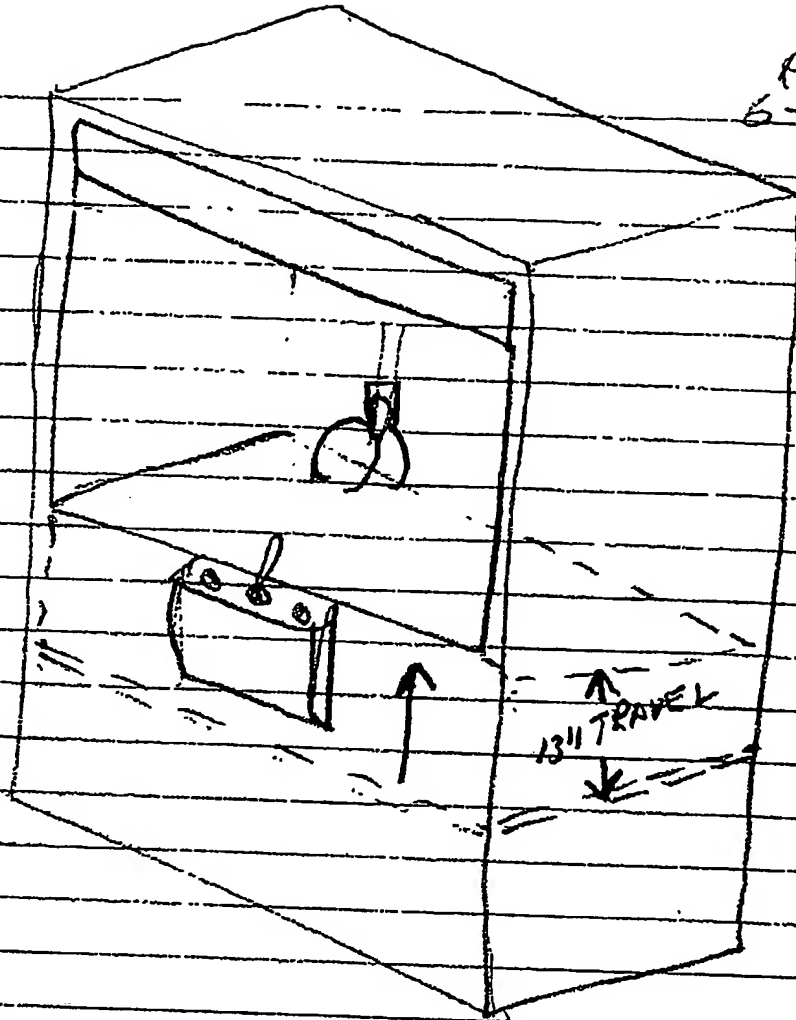
- (1) THE STEPPER MOTOR WILL RAISE THE PRIZE SHELF WHEN PRIZE VEND COUNT TABLE IS REACHED OR HOW FAR THE CLAW CAN BE LOWERED. THE RATE OF CLIMB FOR PRIZE SHELF IS VERY SLOW ABOUT 1" PER HOUR. MAXIMUM SPEED. RESET SPEED WILL BE NORMAL.



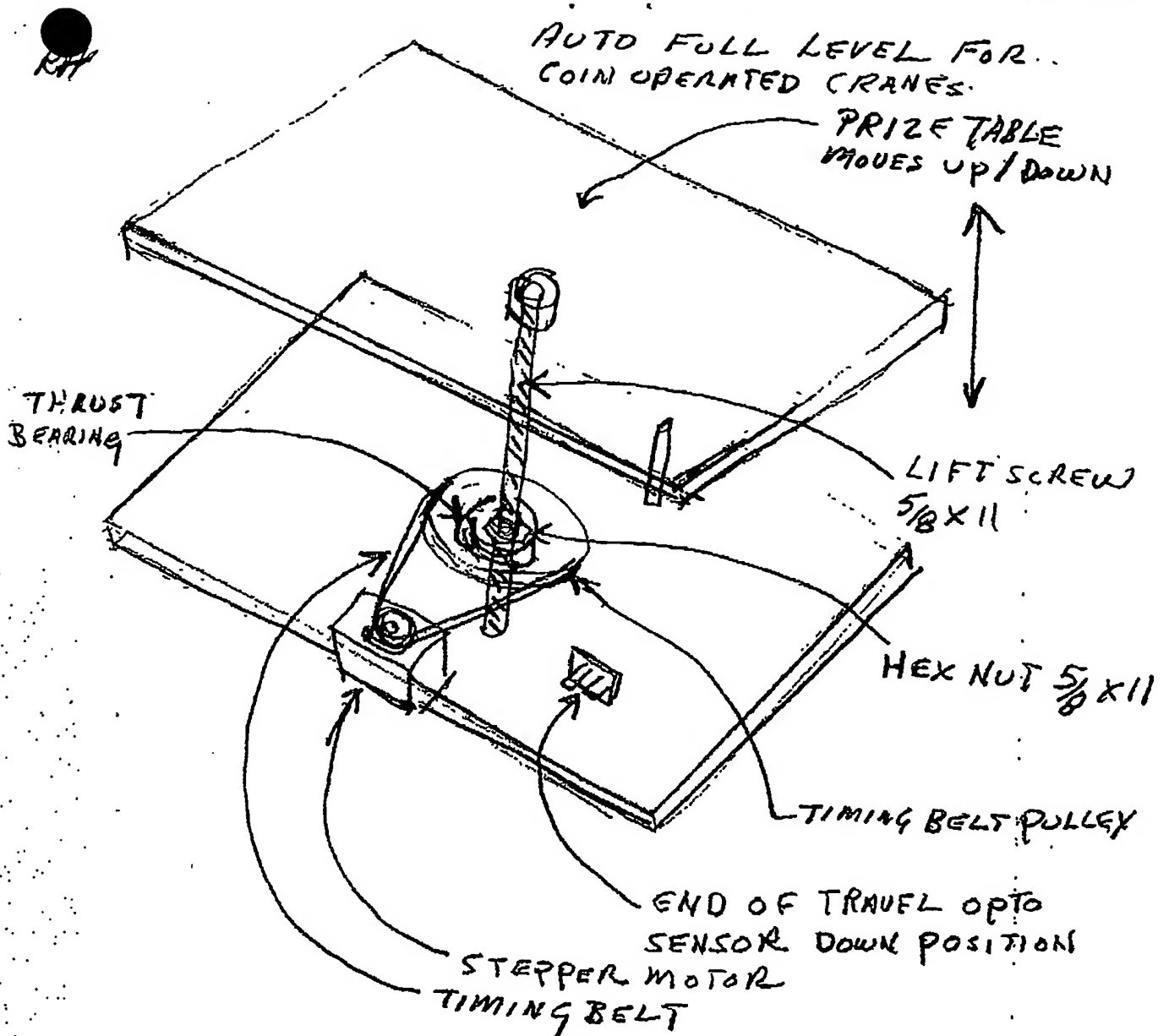
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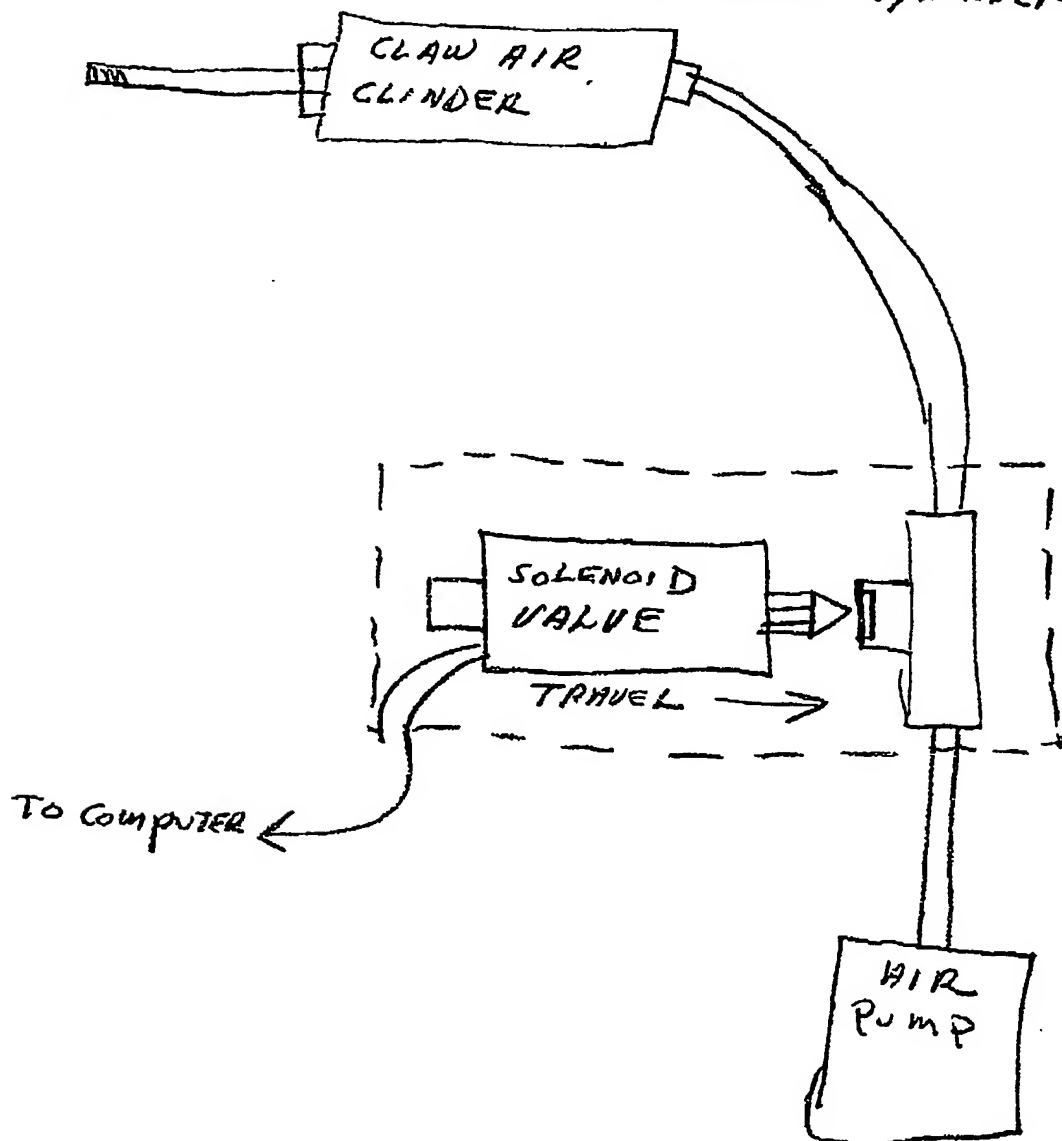
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WHEN CRANE IS LOADED THE PRIZE TABLE IS RESET TO DOWN POSITION. AS GAMES ARE PLAYED THE TRAVEL OF THE CLAW IS LOGGED WITH EACH PLAY WHERE A AVG. PRIZE LEVEL CAN BE DETERMINED. THIS ALLOWS FOR A INTELLIGENT WAY OF KEEPING PRIZE LEVEL NEAR FULL FOR MAXIMUM PLAY APPPEAR. ALSO DOUBLE AMOUNT OF PRODUCT CAN BE LOADED EACH TIME LIMITING THE AMOUNT OF SERVICE CALLS.

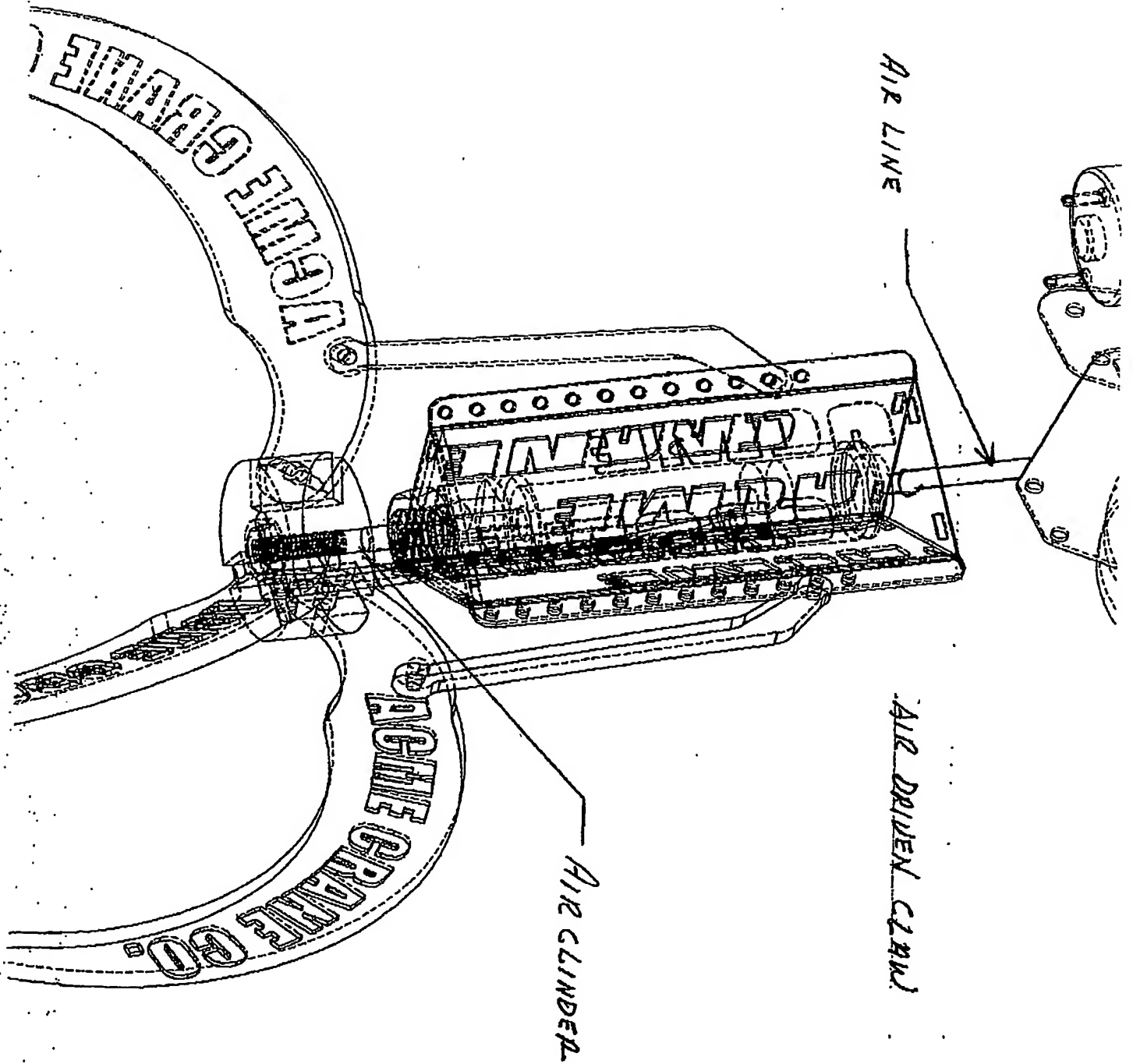
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CRANE CLAW USING AIR CYLINDER



WHEN SOLENOID IS ENERGIZED AIR PRESSURE BUILDS
 TO ACTIVATE AIR CYLINDER WHEN SOLENOID IS RELEASED
 AIR PRESSURE IS RELEASED ALLOWING AIR CYLINDER
 TO RETURN.

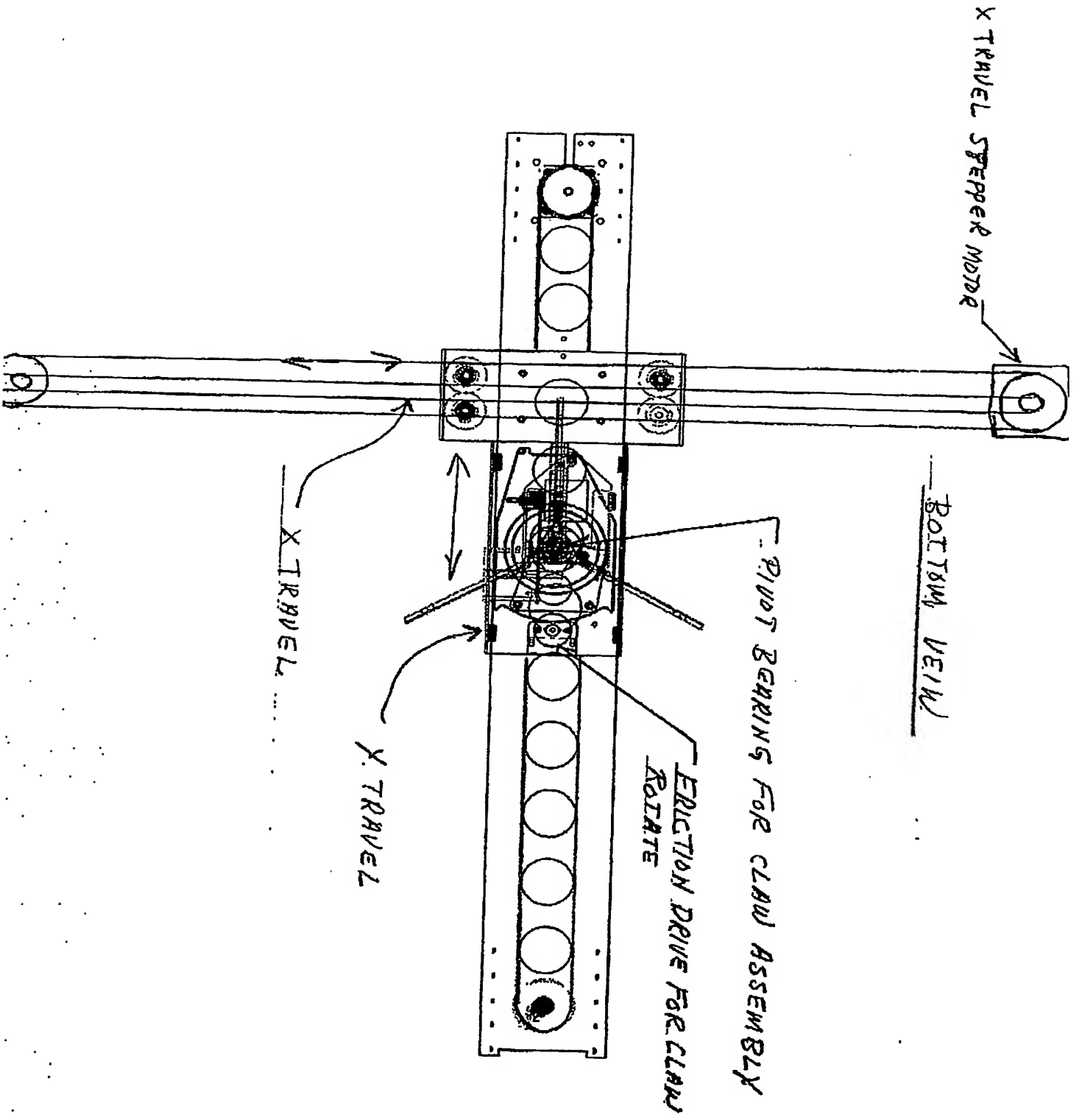
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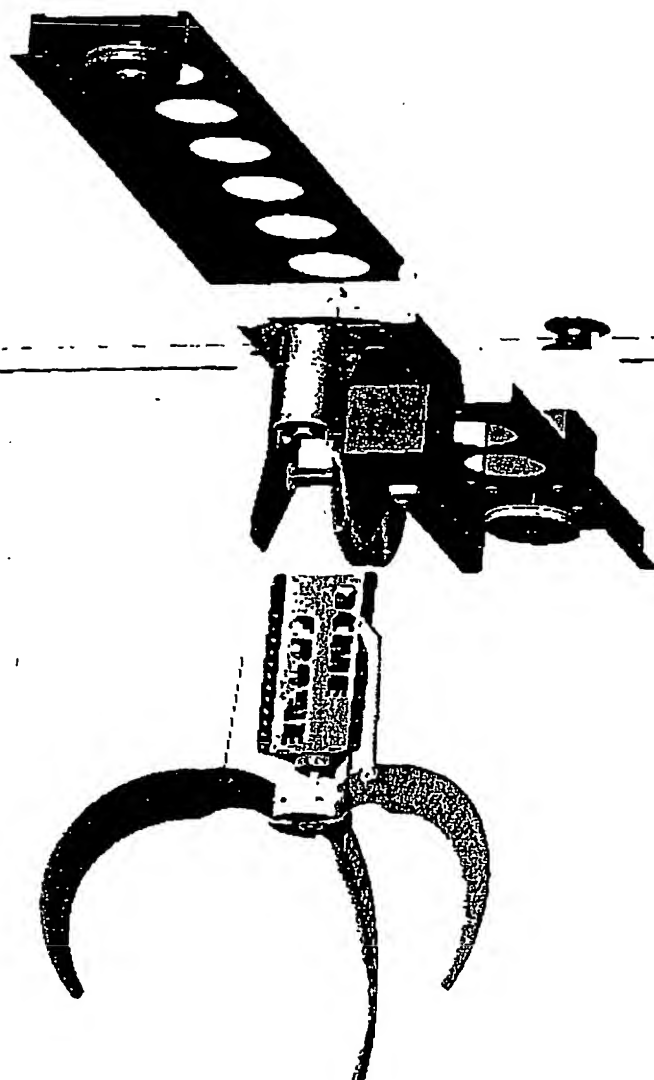
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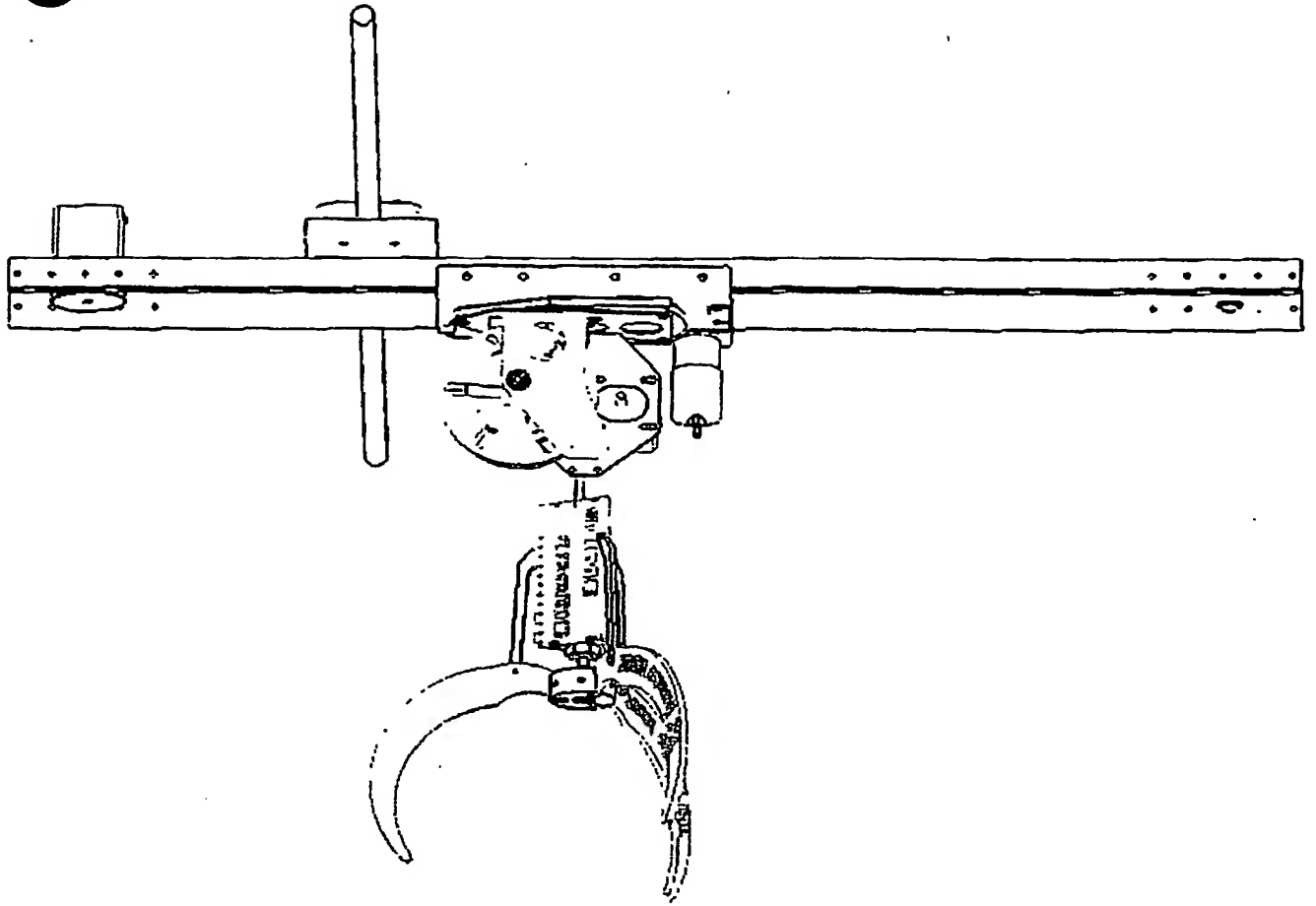
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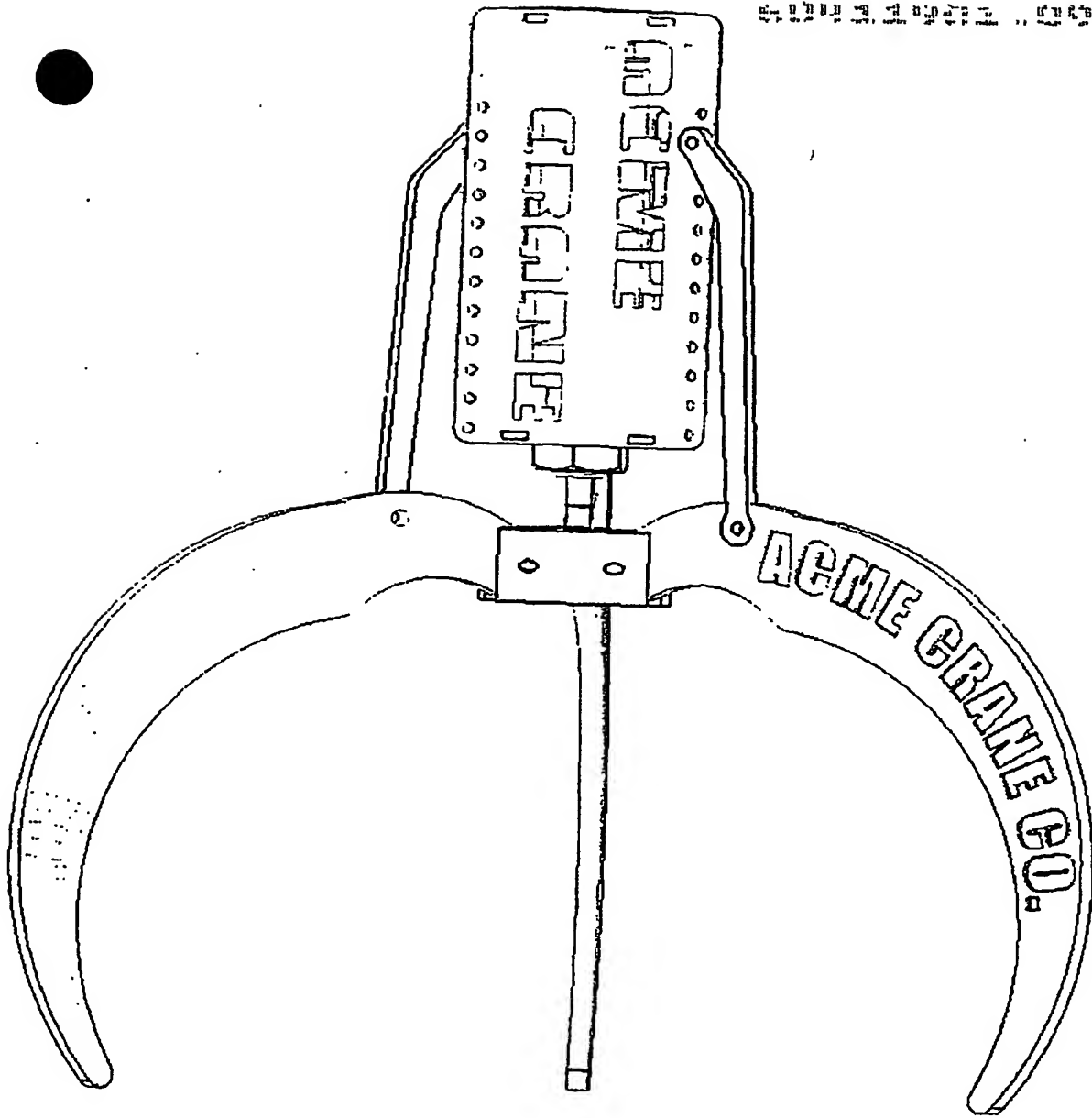
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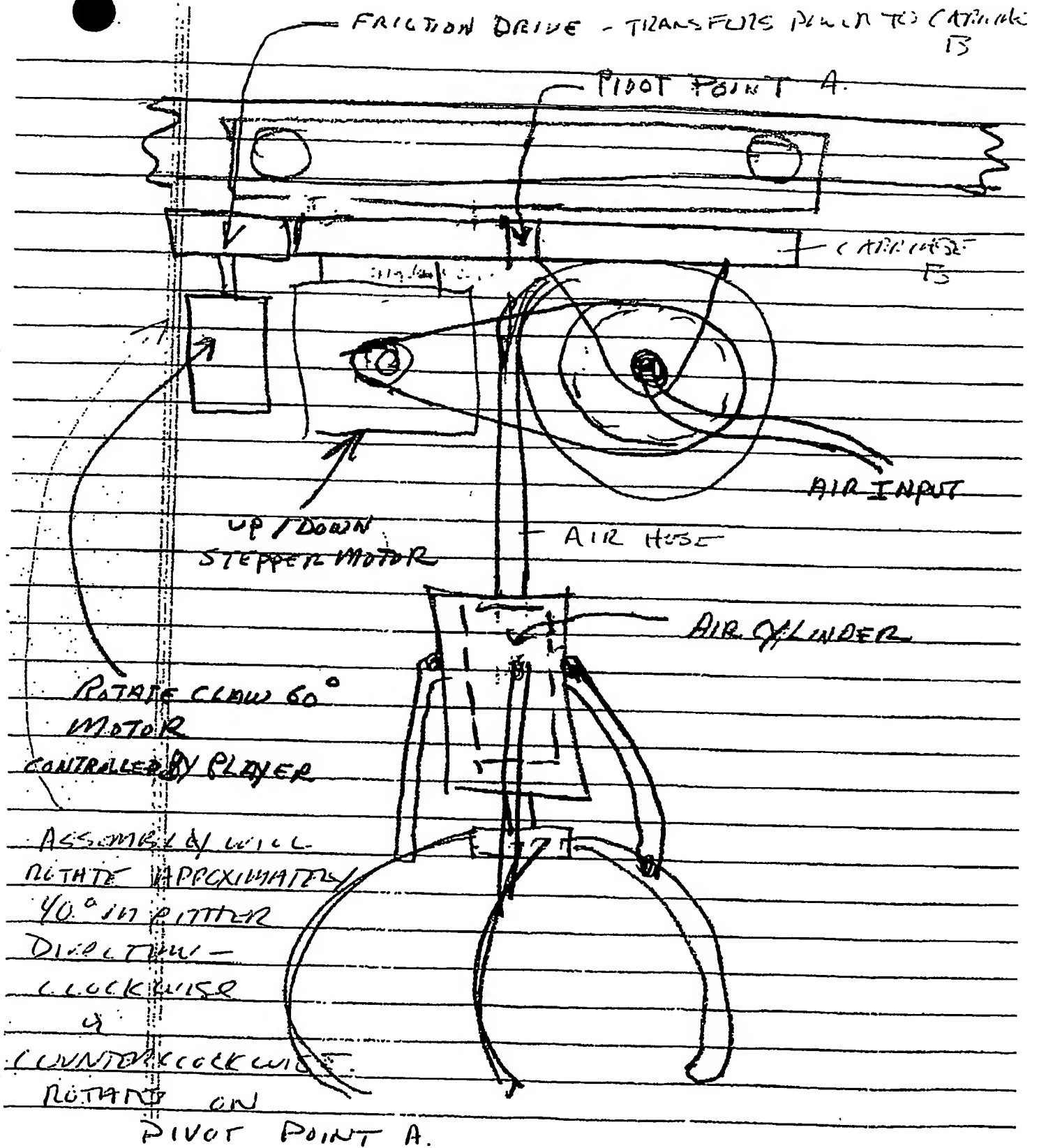
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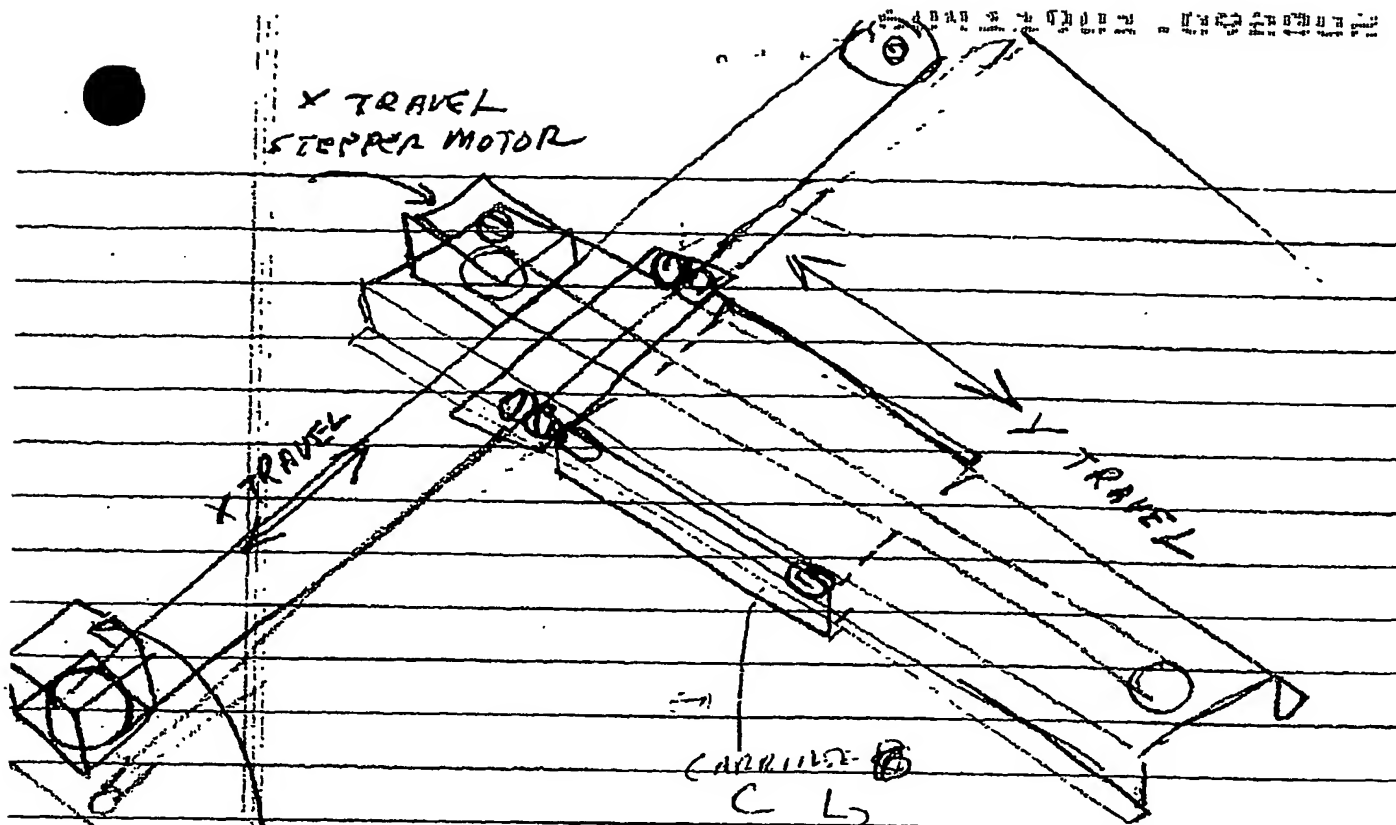
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